

AIM Ann Report  
1876 to 1877

REPORT

OF THE

AUCKLAND INSTITUTE

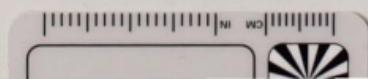
FOR 1876-77.

Adopted at the Annual Meeting held February 19, 1877.

Auckland :  
WILLIAM ATKIN, GENERAL PRINTER, HIGH STREET.

1877.

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R E P O R T

OF THE

AUCKLAND INSTITUTE

*FOR 1876-77.*

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ТЯОЧИЯ  
ДЛЯ ПОСТАНОВЛЕНИЯ  
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1877.

OFFICERS

OF

THE AUCKLAND INSTITUTE.

COUNCIL.

**President.**

R. C. BARSTOW, Esq., R.M.

CAMPBELL, J. L., Esq., M.D.	HEALE, T., Esq.
FIRTH, J. C., Esq.	MITFORD, G. M., Esq.
GILLIES, HIS HONOUR JUSTICE	POND, J. A., Esq.
GOODALL, J., Esq., C.E.	PURCHAS, REV. A. G., M.R.C.S.E.
HAULTAIN, THE HON. COL.	STEWART, J., Esq., C.E.

WHITAKER, THE HON. F.

**Secretary and Treasurer.**

T. F. CHEESEMAN, Esq., F.L.S.

**Auditor.**

T. MACFFARLANE, Esq.

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ANNUAL REPORT  
OF THE  
AMERICAN INSTITUTE OF  
MUSEUMS  
FOR THE YEAR  
1876-77

BY  
CHARLES L. DODGE,  
PRESIDENT.

WITH  
ADDITIONAL PAPERS  
BY  
JOHN C. WOOD,  
WILLIAM H. COOPER,  
J. A. M. THOMAS,  
AND  
EDWARD L. GARRISON.

PRINTED FOR THE INSTITUTE  
BY  
J. R. GREEN & CO., BOSTON.

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*The following Magazines and Periodicals are Circulated amongst  
the Members :—*

Quarterly Journal of Microscopical Science  
Quarterly Journal of Science  
Popular Science Review  
Nature  
Geological Magazine  
Lancet  
Scientific American  
The Academy  
The Garden  
Botanical Magazine  
Gardener's Chronicle  
Chemical News  
Engineering  
Iron  
Journal of Botany  
Monthly Microscopical Journal  
Science Gossip  
Electrical and Telegraphic Review  
Journal of the Society of Arts.

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## WINTER SESSION, 1877.

*Meetings will be held on the following Monday Evenings :*

MAY 28  
JUNE 25  
JULY 23

AUGUST 20  
SEPTEMBER 24  
OCTOBER 22

*To commence at 7.30 p.m.*

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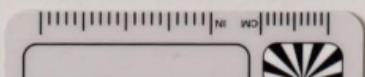
## EXTRACTS FROM THE RULES.

1. Any person desiring to become a member of the Institute, shall be proposed in writing by two members, and shall be balloted for at the next meeting of the Council.

2. New members on election to pay one pound one shilling entrance fee, in addition to the usual subscription of one pound one shilling, the annual subscription being payable in advance on the first day of April for the then current year.

3. Members may at any time become Life-members by one payment of ten pounds ten shillings, in lieu of future annual subscriptions.

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# AIM Ann Report 1876 to 1877

## R E P O R T.

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IN accordance with the usual custom, the Council have now the pleasure of submitting their ninth annual Report upon the progress and condition of the Institute. In so doing, they have to congratulate the members on the removal of many of the obstacles that have for so long a period impeded the proper development of the Institute, and prevented it from assuming that position as a Scientific and Literary Society to secure which it was the aim and intention of its founders.

The new Institute and Museum Buildings were completed and finally handed over by the contractor in the month of May last. With the view of bringing the objects of the Institute more prominently under the notice of the public, and also with the hope of materially adding to the Building Fund, the Council determined to inaugurate the building with an Art and Industrial Exhibition, combined with a series of popular scientific lectures. Unfortunately, the time available for preparations was but short, and at first little more than partial success was anticipated. However, the ready assistance afforded by the members and friends of the Institute, together with the liberality evinced in forwarding articles for exhibition, removed the chief difficulties attending the undertaking; and the Exhibition, although somewhat unequal in character, and bearing manifest evidences of the haste with which it had been organised, was in reality a great success, and far surpassed anything of the kind previously attempted in Auckland. His Excellency the Governor kindly presided at the opening ceremony, which took place on June 5th, 1876. During the next three weeks experimental lectures on scientific subjects were delivered by Mr H. A. Severn

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and other gentlemen. The proceedings were also varied by the exhibition of microscopes, spectroscopes, etc., and by an extensive series of views with the oxy-hydrogen lantern. This last, which proved a very attractive feature, was under the direction of Mr T. Crook, who kindly volunteered his services for the occasion. The attendance during the whole period was remarkably good, and the Council are happy to state that financially the Exhibition resulted in a substantial addition to the funds of the Society. The thanks of the Institute should here be given to the numerous ladies and gentlemen who kindly sent articles on loan, and especially to Sir G. Grey, K.C.B., whose valuable collection of rare books and manuscripts attracted considerable attention; and also to the Society of Artists, without whose active co-operation it would have been impossible to have obtained the display of pictures that covered the walls of the building.

The total cost of the Museum, including fittings, amounted to nearly £4000, thus exceeding by about £2200 the amount realized by private subscriptions. It had been intended to provide for this deficiency by mortgaging the building under the provisions of the Auckland Institute Act, of session 1875; but a clause having been inserted prohibiting the power of sale, this was found impracticable. As monetary engagements had been made with the contractor that required immediate settlement, it was resolved to obtain an overdraft at the Bank of New Zealand for £2000, on the joint security of the members of the Council, and to endeavour to obtain the passage of an amended Bill during the then approaching session of Parliament. This Bill was introduced, and safely carried through the House of Representatives, but was thrown out in the Upper House. Shortly afterwards, a sum of £2000 appeared on the general estimates for the colony as a grant to the Otago Museum, and strong representations were immediately made to the Government to induce them to propose a similar sum for Auckland. Principally through the action of the Hon. F. Whitaker, to whom the Institute is much indebted in this matter, this

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was at length agreed to, and a vote for £2200 was finally assented to by both Houses. Through this fortunate termination of what at first appeared a most serious financial difficulty, the Council are able to congratulate the members on the complete extinguishment of the debt on the building, which now stands unfettered by any liabilities whatever.

Six meetings have been held during the year, at which the following papers were read and discussed:—

1. Introductory Address:—by the PRESIDENT.
2. On the Fertilisation of Selliera:—by T. F. CHEESEMAN, F.L.S.
3. Notes on Insects injurious to Kauri Timber:—by CAPTAIN T. BROUN.
4. Note on the Maori Rat:—by SIR G. GREY, K.C.B.
5. Description of a new species of Cicindela:—by CAPTAIN T. BROUN.
6. Descriptions of new species of Coleoptera:—by CAPTAIN T. BROUN.
7. Notes on the approaching Eclipse of the Sun:—by T. HEALE.
8. The Elements of Mathematics:—by J. ADAMS, B.A.
9. On Savage and Barbaric "Survivals" in Marriage:—by the REV. J. WALLIS, M.D.
10. On Lime as a Fertiliser:—by D. HAY.
11. Stray Thoughts on Mahori Migrations:—by R. C. BARSTOW, R.M.
12. Notes on Quartz Crushing:—by J. GOODALL, C.E.
13. Sketch of the Geology of the Northern Hawkes' Bay District:—by S. PERCY SMITH.

The eighth volume of the Transactions of the New Zealand Institute has been printed during the year, and

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copies have been duly distributed to the members. Although not equal in size to many of its predecessors, it has yet attracted considerable interest. The Council freely recognise the importance of the annual volume, not only as a means for placing on record a large amount of valuable information respecting the natural history and resources of the colony which otherwise might be entirely lost, or at least would not be presented in a form so readily accessible for reference, but also as tending to excite a more widely spread interest in the leading facts and generalizations of science.

The arrangement of the Museum collections in the new building necessarily occupied a considerable amount of time. The Council regret that, from the want of new cases and other requisites, it has not been possible to display some of the specimens in as full a manner as could be wished, but they hope that this drawback will at least be partially removed during the ensuing year. The principal additions have been as follows:—A series of Foreign bird skins, mammals, &c., received in exchange from the Otago Museum; New Zealand bird skins, casts of the Harpagornis, and a fine skeleton of *Rhea Americana*, obtained in a similar manner from the Canterbury Museum; a most interesting collection of 100 bird skins from New Ireland and New Britain, including many rare and a few new species, purchased by special subscription from the Rev. G. Brown, C.M.Z.S. This latter gentleman has also presented to the Museum a valuable collection from the same islands, comprising an extensive series of Coleoptera, Lepidoptera, and other insects; shells, crustacea, lizards, etc., together with a large number of weapons, implements, and articles of clothing. Interesting donations have also been received from Mr J. Goodall, C.E., Mr Rayner, and numerous other gentlemen. Full particulars will be found appended.

The Council have to report that the Library of the late Provincial Council—consisting of about 2500 volumes of well-selected works—has been placed by the Government

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in the keeping of the Institute, until final disposition of it is made by the General Assembly. In the meantime the Library is to be maintained, together with that of the Institute, as a Free Public Library for the use of the inhabitants of Auckland. The thanks of the Institute should here be given to Mr J. T. Mackelvie for a very liberal donation of 52 volumes of scientific works, now on their way from London.

On payment of the grant of £2200 the Government requested that the Museum and Library should be opened to the public daily. The Council have long been sensible of the necessity existing for this, but until recently the financial position of the Society was so uncertain that any change would have been premature. Even now it is doubtful whether the arrangement can be carried out, and the Library and Museum maintained in a satisfactory manner, with the limited means at the disposal of the Institute. However, the proposal was accepted, and came into effect on the first of December last. Since then the number of visitors has largely increased, and it is to be hoped that the change will prove as advantageous to the interests of the Institute as it is certainly beneficial to the public.

In concluding this Report, the Council hope that the active assistance of the members will now be given towards furthering the objects of the Institute,—either by contributing papers to be read at the meetings, by adding to the Library or Museum, or by any other mode that may tend towards these ends. The Council also trust that the general public will afford that liberal support which is due to an institution whose chief aim is to secure the advancement of knowledge, and the diffusion of scientific and practical information throughout the community.

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THE TREASURER IN ACCOUNT WITH THE AUCKLAND INSTITUTE.

Dr.

FEBRUARY 15TH, 1876, TO FEBRUARY 15TH, 1877.

Cr.

	£ s. d.		£ s. d.
Balance in the Bank of New Zealand, February 15, 1876 .....	68 5 11	Books and Periodicals .....	33 10 10
Entrance Fees and Subscriptions.....	306 2 0	Additions to Museum .....	21 11 4
Rents .....	34 10 0	Museum Requisites—Printing, Advertising, Postages, &c. ....	37 3 10
Donations on account of new building.....	20 0 0	Gas .....	14 14 9
Books, &c., sold .....	7 3 6	Cleaning and attendance .....	15 3 9
	<hr/> £436 1 5	Paid on account of new building.....	105 19 6
		Repairs to old buildings .....	47 0 0
		Curator .....	100 0 0
		Life Subscription carried to Investment Fund .....	10 10 0
		Miscellaneous.....	19 2 2
		Balance in the Bank of New Zealand, February 15th, 1877 .....	30 19 3
	<hr/> £436 1 5		

BUILDING FUND ACCOUNT.

	£ s. d.		£ s. d.
Balance in the Bank of New Zealand, February 15th 1876 ...	354 9 6	Paid on account of new building .....	2627 2 3
Additional Donations to Building Fund .....	127 14 0	Insurance .....	30 0 0
General Government Grant .....	2200 0 0	Expenses of Exhibition .....	138 15 6
Receipts from Exhibition .....	244 8 6	Interest on overdraft .....	68 12 10
Balance due Bank of New Zealand, February 15th, 1877 .....	<hr/> 1 11 3	Repairs to old buildings .....	63 12 8
	<hr/> £2928 3 3		<hr/> £2928 3 3

12

INVESTMENT FUND ACCOUNT.

	£ s. d.		£ s. d.
Cash in Auckland Savings Bank, February 15th, 1876 .....	23 11 5	Cash in Savings Bank, February 15th, 1877.....	35 8 1
Life Subscription .....	10 10 0		
Interest to January 1, 1877 .....	<hr/> 1 6 8		
	<hr/> £35 8 1		<hr/> £35 8

Audited and found correct, February 16, 1877,  
THO. MACFFAKLANE, AUDITOR.

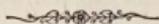
T. F. CHEESEMAN,  
TREASURER.

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## ADDITIONS AND DONATIONS

TO THE

## LIBRARY AND MUSEUM.



- Meteorological Report for 1875; Colonial Museum and Laboratory Report for 1875; Catalogue of the Crustacea of New Zealand:—The Director of the Geological Survey.  
Parliamentary Papers and Reports; New Zealand Hansard for 1876:—The Colonial Secretary.  
Smithsonian Report for 1875; Pickering's Chronological Observations on Plants; Daily Bulletin of the United States Signal Service for 1872 and 1873; Report of the Geological Survey of the Territories, vol. 6; various Pamphlets:—The Smithsonian Institution, Washington, U.S.  
Don's *Hortus Cantabrigiensis* :—Coleman Philips.  
Dumeril's Analytical Ichthyology :—Dr Day.  
Davies on Mounting Microscopic Objects :—E. Bartley.  
Bartholini's Anatomy, date 1651 :—A. M. Sheppard.  
*Aesop's Fables* in Greek and Latin, date 1660; *Comfort in Tribulation*, MS. of date 1587; the *Garden of Armories*, date 1567 :—F. Green, Port Albert.  
Nicholl's *Cyclopaedia*, 3 vols. (being the first book sold by auction in Auckland); Percival's Account of the Cape of Good Hope; Narrative of a residence in Koordistan; Historical description of Holyrood :—J. George.  
Phrasologia Generalis :—W. Rattray.  
St. Olon's Empire of Morocco :—F. Holmes.  
Catalogue of the Melbourne Public Library, 2 vols.:—Plunkett.  
Six Chinese Drawing Books:—The Special Correspondent of the *Herald*, San Francisco.  
Journal of the Society of Arts :—J. Martin. \$1.00  
Old Edition of Virgil :—J. M. Mowbray.  
Monthly Meteorological Diagrams :—É. B. Dickson.  
On the Mineralogy of New South Wales; On the Formation of Moss Gold and Silver :—Prof. Liversidge.  
Auckland Journal of Commerce, 6 numbers:—J. A. Barber & Co.  
Old Auckland Newspapers :—W. Shanaghan.  
Telegraphic Map of the World :—Hon. F. Whitaker.  
Publications of the New Sydenham Society for 1875-6 :—Purchased.  
Publications of the Paleontographical Society for 1875 :—Purchased.  
Transactions and Proceedings of the Zoological Society for 1875 :—Purchased.  
35 volumes of Books :—Purchased.  
Large Oil Painting :—Dr Campbell.

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- Seven mammals, 100 bird skins, Moa bones, N.Z. shells:—Capt. F. W. Hutton, Otago Museum.  
80 bird skins, fishes, &c.:—J. Goodall, C.E.  
100 bird skins from New Britain and New Ireland:—Purchased by special subscription from the Rev. G. Brown, C.M.Z.S.  
12<sup>1</sup> Marsupials, bats, &c.; extensive collection of lepidoptera, coleoptera, and other insects; shells, crustacea, reptiles, &c.; eggs of the cassowary, megapode, &c.; series of 80 articles—weapons, implements, articles of clothing—illustrating the manners and customs of the inhabitants of New Britain and New Ireland:—The Rev. G. Brown, C.M.Z.S.  
23 New Zealand bird skins; skeleton of *Rhea Americana*; casts of the *Harpagornis*:—Dr J. Haast, F.R.S., Christchurch Museum.  
Case of North American birds (deposited):—S. Morrin.  
Six bird skins from Savage Island; lizards, insects, &c.:—H. Mair.  
Two skins of the large Bird of Paradise (*Paradisea apoda*):—Purchased.  
Seal (*Stenorhynchus leptonyx*), captured at Whangarei:—F. Hartwell.  
Lower jaw of wild boar:—H. Palmer.  
Head and antlers of Deer:—S. T. George.  
Snout of sword fish:—H. Munro.  
Carapace and jaws of tortoise:—Captain Millar.  
Sepioidenthis major:—Captain McGillivray.  
Lizards and insects from the Islands:—Mr Justice Gillies.  
Fijian land and marine shells:—G. F. Woods.  
Collection of English land and fluviatile shells, New Zealand shells and insects, various osteological preparations:—Mrs A. Fox.  
Pedunculated cirripedes from the back of a whale; one fish (*Pelamys chilensis*), specimens of *Bulinus antipodarum*:—J. H. Greenway.  
Land crab from Samoa:—Dr Goldsboro'.  
Land crab and shells from Savage Island:—H. B. Sterndale.  
Euplectella speciosa:—E. A. Mackechnie.  
One fish (*Genypterus blacodes*), specimens of *Helix Busbyi*:—H. A. H. Monro.  
Skin of kiwi:—J. Wilkinson.  
Green Lizard:—L. C. Goffe.  
Green lizards from Napier:—D. B. Balfour.  
Specimens of the Tuatara lizard:—J. A. Pond.  
Tuatara lizards from East Cape Islet:—Wilson.  
Egg of albatross, New Zealand shells:—Hon. Col. Haultain.  
Egg of kiwi:—G. Moon.  
New Zealand shells:—J. George.  
Mantis sp.:—J. Sharp.  
Large spider:—R. Horne.  
Hepialus virescens:—Hon. Col. Haultain.  
Centipede:—J. Hall.  
Deinacrida heteracantha:—J. C. Sharland.  
Collection of butterflies from Fiji:—Rev. W. Floyd.  
125 species of New Zealand coleoptera:—Captain T. Broun.  
75 species of coleoptera, New Zealand shells, &c.:—T. F. Cheeseman, F.L.S.  
Crystallised quartz, carbonate of lime, arsenic, &c., from the Tokatea and Bismarck mines, Coromandel:—G. Rayner.  
Graphite from Coromandel:—W. Steel.  
Gold specimen from Coromandel:—Hon. J. Williamson.  
Cinnabar from Ohaewai, Bay of Islands; iron ore:—W. Earl.  
Australian tin ores and smelted tin:—A. H. Nathan.

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- Large block of nickel ore from New Caledonia:—A. T. Maning, per Ward & Co.  
Lava from Mauna Loa, Sandwich Islands; lignite from the bed of the Waiuku Creek:—R. C. Barstow.  
Large block of coal, silicified wood:—Bay of Islands Coal Company.  
Ironstone from Miranda, and pig-iron smelted from it:—Fraser and Tinne.  
Collection of agates, &c., and various minerals from India:—Mrs Thom.  
Rock specimens from the Great Barrier Island:—Springall.  
Rock specimens from Raglan:—T. B. Hill.  
Encrustations from the shaft of the Pumping Association, Thames:—C. Tothill.  
Rock specimens, crystallised lead:—Hazard.  
Scrap lead, cast and milled at Wellington:—J. Ballinger.  
Ruby copper from the Great Barrier Island:—T. Heale.  
Native copper and hornblende porphyry from Cornwall:—W. Jaggar.  
Australian copper ores:—Mr Compton.  
Amber from the Waikato Coal Mines:—R. R. Hunt.  
Carbonate of iron:—D. M. Beere, C.E.  
Specimens of sulphur and gypsum from White Island:—Messrs Wilson and Troup.  
Agates, chalcedony, jasper, &c., from Hastings:—J. Lownes.  
Nickel ore from New Caledonia:—Mr Justice Gillies.  
Stone adze:—W. J. Dalton.  
Fern beater, stone adzes:—Miss Baker.  
Two polished stone adzes, greenstone adze, hone:—Dr Maunsell.  
Carved staff:—J. E. Allen.  
Dogskin mat, flax mats, widow's cap, greenstone adze, fish hooks, stone mere:—Deposited by Mr R. C. Barstow.  
Old stone mere:—F. J. Shortt.  
Large stone mere:—T. B. Hill.  
Revolver found on the site of the Gate Pah, Tauranga:—J. Chadwick.  
Stone adze:—J. Breen.  
Stone adze:—J. Springall.  
Two spears:—Dr Watling, Norfolk Island.  
Cap made of spiders' webs:—Captain Farquhar.  
Native dress and waist-belt, fish hooks, &c., from the Marshall Islands;  
Native dress, head-dress, comb, shells from the Friendly Islands:—Captain Laverock.  
Buoy, made of sealskin, from Alaska:—R. C. Barstow.  
Wooden pipe used by the Indians of Canada:—D. M. Beere, C.E.  
Set of soapstone figures, illustrating the different trades of India:—Mrs Thom.  
Kawa root:—J. M. Tunny.  
Piece of Herne's oak:—G. S. Graham.  
Rata knot:—J. Brown.  
Collection of coins:—J. Leonard.  
32 copper coins:—J. Smallwood.  
75 Roman coins:—C. D. Stanier (deposited).  
Roman coins:—H. B. Montgomery.  
Bell carved out of kauri gum:—H. B. Dobbie.  
Large model of a full-rigged ship:—Mr Hirst (deposited).  
Seed of entada scandens, washed up at Waipu:—H. Moir.  
Sheeting and yarn manufactured from phormium fibre:—Lockhart & Co., Edinburgh.

# AIM Ann Report 1876 to 1877

## AUCKLAND INSTITUTE.

### LIST OF MEMBERS

FOR THE

YEAR ENDING MARCH 31ST, 1877.

Adams, J., B.A., Parnell	Buchanan, Jno., Auckland
Aickin, G., Auckland	Buckland, W. F., Remuera
Aitken, W., Auckland	Buddle, Rev. T., Epsom
Allwright, H., C.E., Auckland	Buddle, T., Auckland
Anderson, J., B.A., Auckland	Burton, Capt., London
Anderson, H. F., Auckland	
Anderson, W., Auckland	
Arney, Sir G. A., Auckland	
Atkin, Wm., Auckland	
Atkin, W., Tamaki	
	Cameron, W., Auckland
Baber, J., C.E., Remuera	Campbell, J. L., M.D., Auckland
Ball, T., Mangonni	Carr, H. T., C.E., Auckland
Ball, W. T., Auckland	Carr, R. C., Remuera
Barber, H. P., Parnell	Cawkwell, W. J., Auckland
Barstow, R. C., R.M., Auckland	Chamberlin, Hon. H., Auckland
Bartley, E., Devonport	Chambers, J., Auckland
Bates, Rev. J., Devonport	Chapman, G. T., Auckland
Batger, J., Auckland	Cheeseman, T. F., F.L.S., Auckland
Beere, D. M., C.E., Auckland	
Beetham, A., Epsom	Clark, A., Remuera
Biss, S. B., Auckland	Clark, J. M., Remuera
Boylan, J. F., Auckland	Clarke, The Ven. Archdn. E. B., Waimate
Brett, H., Auckland	Clarke, W. H., C.E., Hamilton
Brook, A., Auckland	Cooke, C. E., Auckland
Broham, T., Auckland	Cosgrave, J., Auckland
Broun, Capt. T., Tairua	Cowie, Right Rev. W. G., D.D., Bishop of Auckland
Bruce, Rev. D., Auckland	Cox, A., Hamilton
Buchanan, Jas., Auckland	Cranwell, T., Parnell
	Crook, T., Mount Albert
	Cruickshank, D. B., Auckland

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I 7

- Daldy, W. C., Auckland  
Daveney, Capt. B., Auckland  
Dawson, F. W. H., M.R.C.S.E.,  
    Auckland.  
Day, R., M.D., Auckland  
Dickson, R., Auckland  
Dyson, R. W., Auckland
- Earl, W., Parnell  
Edson, J., Auckland  
Errington, W., C. E., Auckland  
Ewington, F. G., Auckland
- Fairburn, J., Otahuhu  
Fallon, D., Auckland  
Farmer, J., London  
Firth, J. C., Auckland  
Floyd, W. H., Tauranga  
Fraser, G., Auckland  
Fraser, Rev. J. M., Auckland
- George, H. R., Epsom  
George, J., Auckland  
George, S. T., Kauwau  
Gibbons, E., Onehunga  
Gillies, His Honor Justice, Auck-  
    land  
Gittos, B., Auckland  
Goldsboro', C. F., M.D., Parnell  
Goodall, J., C.E., Auckland  
Goodfellow, W., Otara  
Gorrie, W., Auckland  
Graham, G. S., Auckland  
Graham, W. K., Auckland  
Green, Major, Auckland  
Grey, J., Auckland  
Grey, W., Auckland
- Hall, J. W., Grahamstown  
Harding, S., C.E., Auckland  
Harrison, E. M., Auckland  
Hartmann, F. A., M.D., Auckland  
Hassard, Rev. R. S., M.A., Auck-  
    land  
Haultain, Hon. Col., Auckland  
Hay, D., Parnell  
Hay, J., Auckland  
Heale, T., Auckland  
Henderson, J., C.E., Wellington  
Henderson, T., Jun., Auckland  
Henton, J. S., Auckland  
Herapath, P., Auckland  
Hesketh, E., Auckland
- Hill, W. J., Auckland  
Hobbs, R., Pokeno  
Holdship, G., Auckland  
Hooper, J. H., M.R.C.S.E., Auck-  
    land  
Howden, G., Auckland  
Humphreys, W., Auckland  
Hunt, R. R., Ngaruawahia  
Hunt, W. A., Remuera  
Hurst, W. J., Auckland
- Ireland, B., Auckland
- Johnston, G., Auckland  
Jones, Owen, Auckland  
Jones, Stannus, Auckland  
Judd, A., Auckland
- Kent, F. D., Auckland  
Kinder, Rev. J., D.D., S. John's  
    College  
Kinsella, J., Parnell  
Kirk, T., F.L.S., Wellington  
Kissling, G. S., Parnell  
Kissling, T., Parnell  
Kissling, W. H., Parnell  
Kitchen, G., Auckland  
Knorrp, C. B., C.E., Auckland
- Lamb, J., Riverhead  
Larkworthy, F., London  
Lavers, G. H., Auckland  
Leaf, C. J., F.L.S., S.A., G.S.,  
    London  
Lee, W., M.D., Auckland  
Lennox, J. M., Auckland  
Lessong, L., Ph.D., Thames  
Lindsay, J., C.E., Ngaruawahia  
Lodder, W., Remuera  
Lodge, W. F., Auckland  
Luckie, D. M., Auckland  
Luke, S., Otahuhu  
Lusk, H. H., Auckland  
Lysnar, C., Auckland
- Macmillan, C. C., Remuera  
MacCormick, J. C., Auckland  
Macdonald, A. V., C.E., Auckland

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- Macfarlane, T., Auckland  
Macfarland, R. J., C.E., Thames  
Mackechnie, E. A., Auckland  
Mackellar, H. S., Wellington  
Maclean, E., Howick  
Macrae, F., Auckland  
Mair, Capt. G., F.L.S., Ohinemutu  
Mair, R., Whangarei  
Mair, Major W. G., Alexandra  
Maning, F. E., Hokianga  
Martin, J., Auckland  
Masefield, T. S., Auckland  
Maunsell, Ven. Archdua. W., Par-  
nell  
Meinertzhagen, F. M., Napier  
Mitford, G. M., Parnell  
Moat, W., Mahurangi  
Morton, H. B., Auckland  
Morrin, T., Auckland  
Monro, H. A. H., Auckland  
Moss, F. H., Auckland  
Mowbray, J. M., Auckland  
Murdoch, D. L., Epsom
- Nathan, L. D., Auckland  
Nation, Col., Parnell  
Nelson, Rev. C. M., M.A., Auck-  
land  
Niccol, M., Auckland  
Niccol, T., Auckland
- O'Rorke, G. M., Onehunga  
O'Sullivan, R. J., Auckland  
Owen, G. B., Epsom
- Palmer, H., Mahurangi  
Peacock, T., Auckland  
Perkins, E., Auckland  
Philips, C., Auckland  
Pierce, G. P., Auckland  
Pollen, Hon. D., M.D., Auckland  
Pollen, H., Auckland  
Pond, J. A., Auckland  
Pounds, J. E., Auckland  
Preece, J. W., Auckland  
Purchas, Rev. A. G., M.R.C.S.E.,  
Newton
- Rattray, W., Auckland  
Rayner, G., Coromandel
- Richmond, J., Auckland  
Roberton, J., Auckland  
Robertson, J., Mangere  
Ronaldson, J., Kawa Kawa  
Rose, R., Auckland  
Rubery, A., Newton  
Runciman, Jas., Cambridge  
Russell, Jas., Auckland  
Russell, J. B., Devonport  
Russell, T., Auckland  
Rye, Lewis, Otamatea
- Scott, W., Paterangi  
Seccombe, J. C., Newmarket  
Sheath, A., Auckland  
Sheppard, A. M., Otahuhu  
Shera, J. M., Auckland  
Sinclair, A., Remuera  
Slatter, J., Epsom  
Smales, Rev. G., East Tamaki  
Smith, S. P., Parnell  
Spencer, T., Grahamstown  
Stephens, Ingham, Remuera  
Stevenson, J. Y., Remuera  
Stewart, J., C.E., Auckland  
Stewart, T. M., Melbourne  
Stockwell, W., L.R.C.S.E., Auck-  
land  
Stone, C. J., Auckland
- Taylor, Hon. C. J., Auckland  
Taylor, J., Auckland  
Thomas, Capt., Parnell  
Thomson, Neil, Mahurangi  
Thorne, G., jun., Auckland  
Tilly, Lieut. T. C., R.N., Remuera  
Tinne, H., Tamahere  
Tinne, T. F. S., Auckland  
Tomlinson, Rev. A. R., M.A.,  
Onehunga  
Tonks, B., Parnell  
Tothill, C., Auckland  
Troup, F. H., Auckland  
Tunny, J. M., Auckland
- Vickers, S., Auckland  
Von der Heyde, G., Auckland
- Waddington, E., M.D., Alexandra  
Waller, G. W., Auckland

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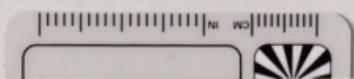
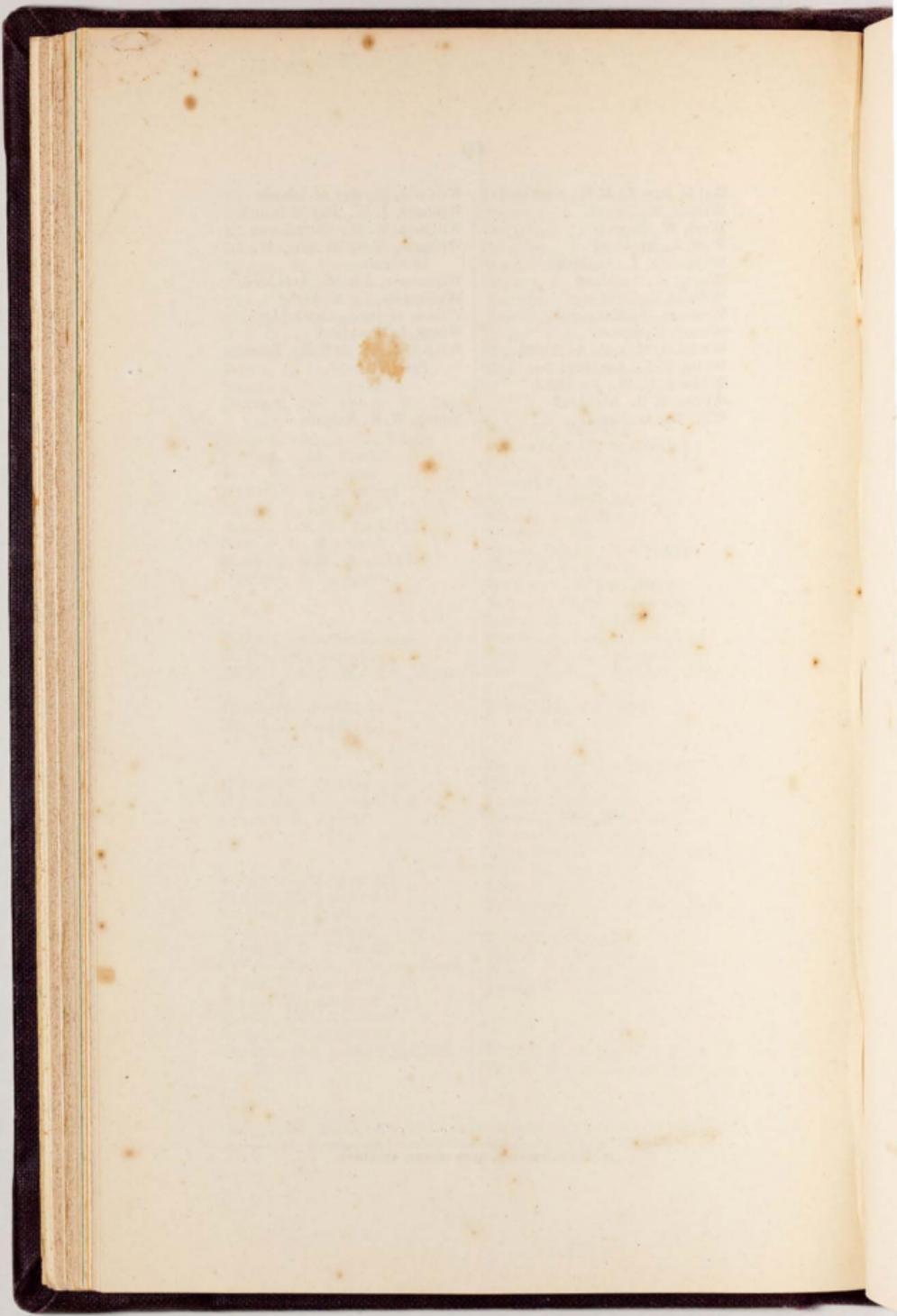
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Wallis, Rev. J., M.D., Auckland  
Walker, R., Parnell  
Ware, W., Parnell  
Watt, J., Auckland  
Waymouth, J., Auckland  
Wayte, E., Auckland  
Webster, J., Hokitanga  
Weetman, S., Mongonui  
Weston, T., Epsom  
Whitaker, Hon. F., Auckland  
White, T. L., Auckland  
Whitson, R. W., Auckland  
Wilcox, E. B., Auckland  
Will, W., Auckland

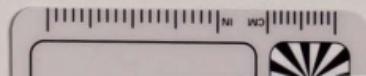
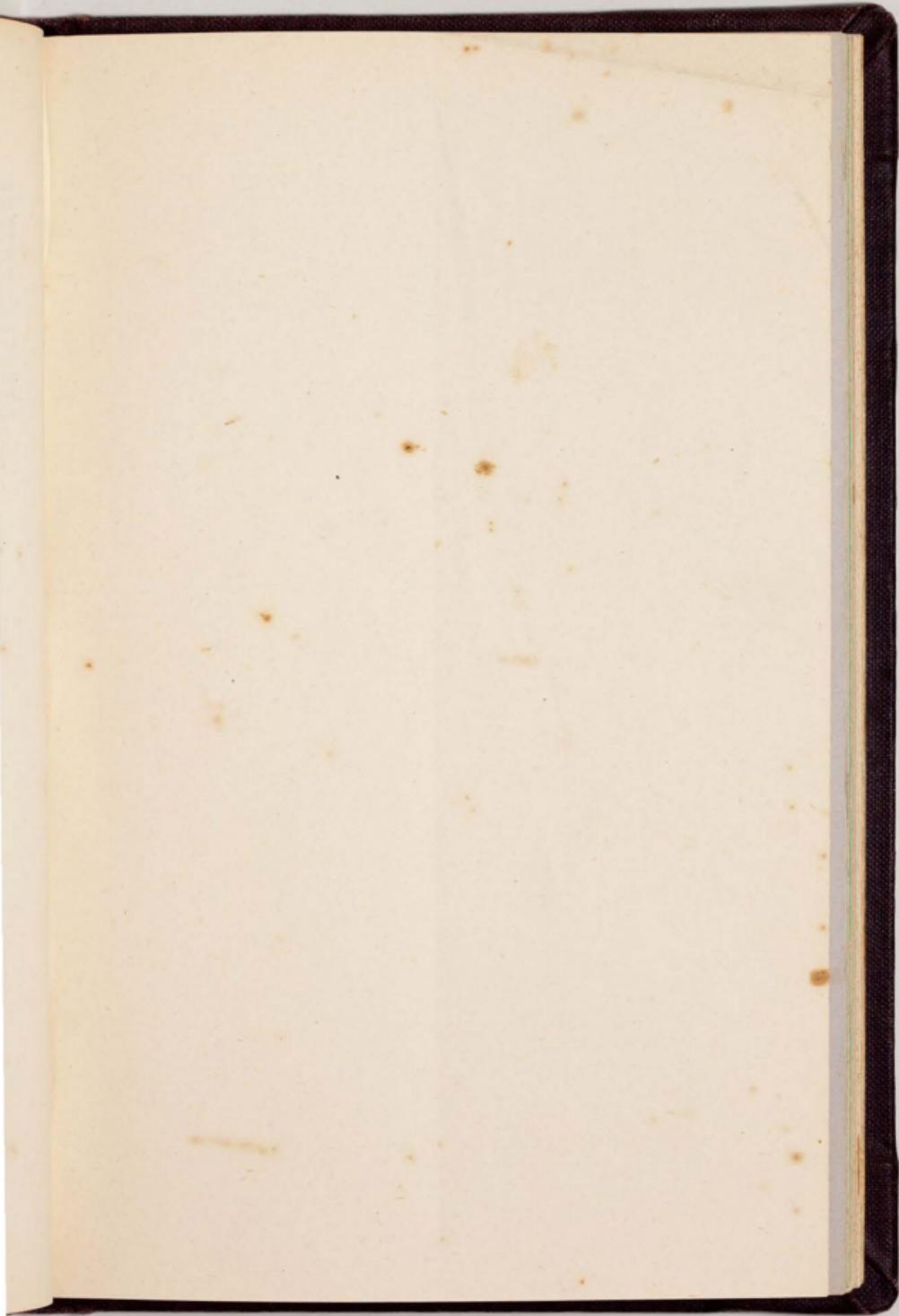
Williams, H., Bay of Islands  
Williams, J. W., Bay of Islands  
Williams, W. H., Kawa Kawa  
Williams, Ven. Archdn., W. L.,  
Gisborne  
Williamson, Hon. J., Auckland  
Williamson, C., Auckland  
Wilson, Major J., Cambridge  
Winks, J., Auckland  
Wright, F. W., L.M.B., Toronto,  
Parnell

Young, W. S., Kaipara

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